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townhome
units

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EHO

Josey Heights Milwaukee, WI

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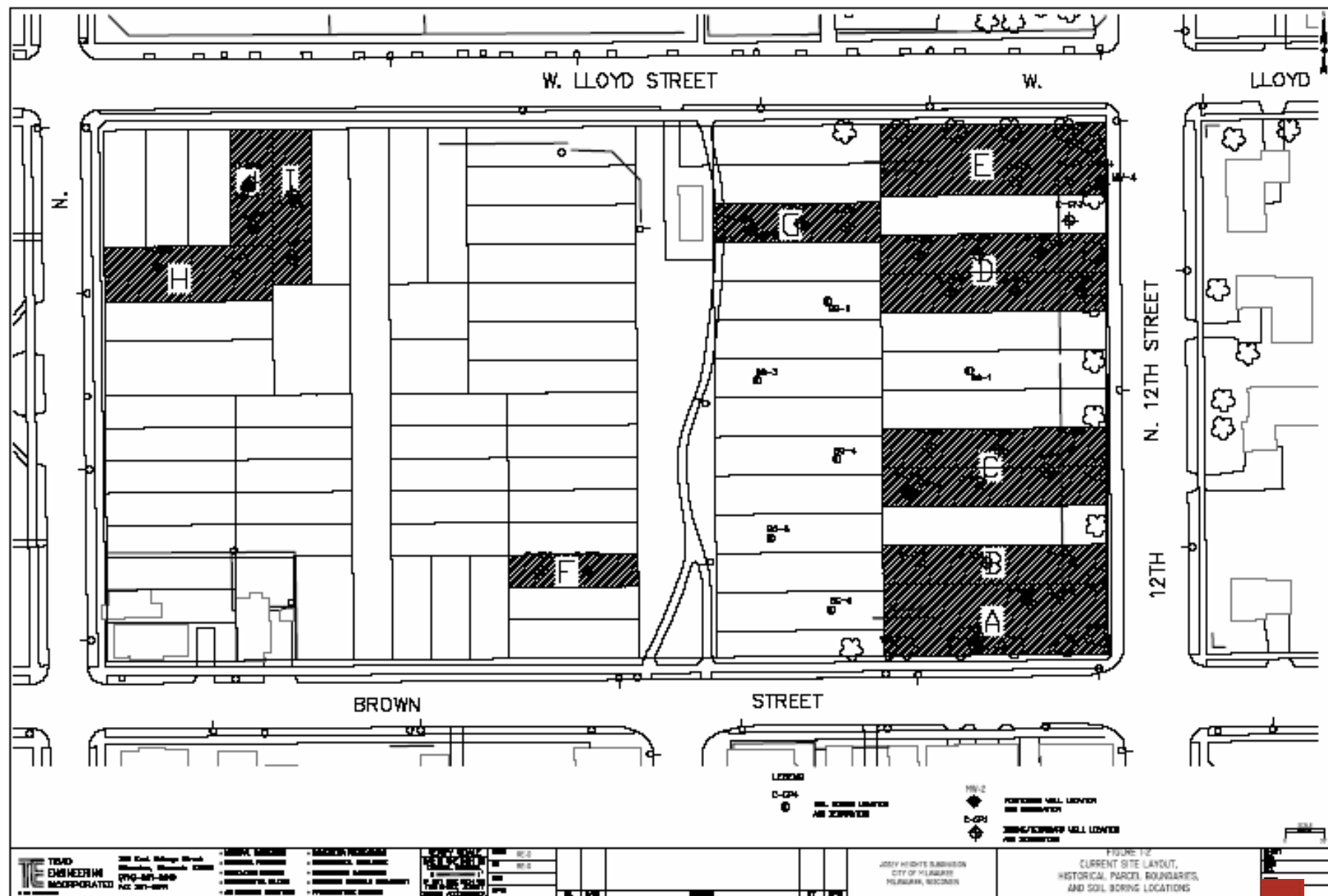


USGS

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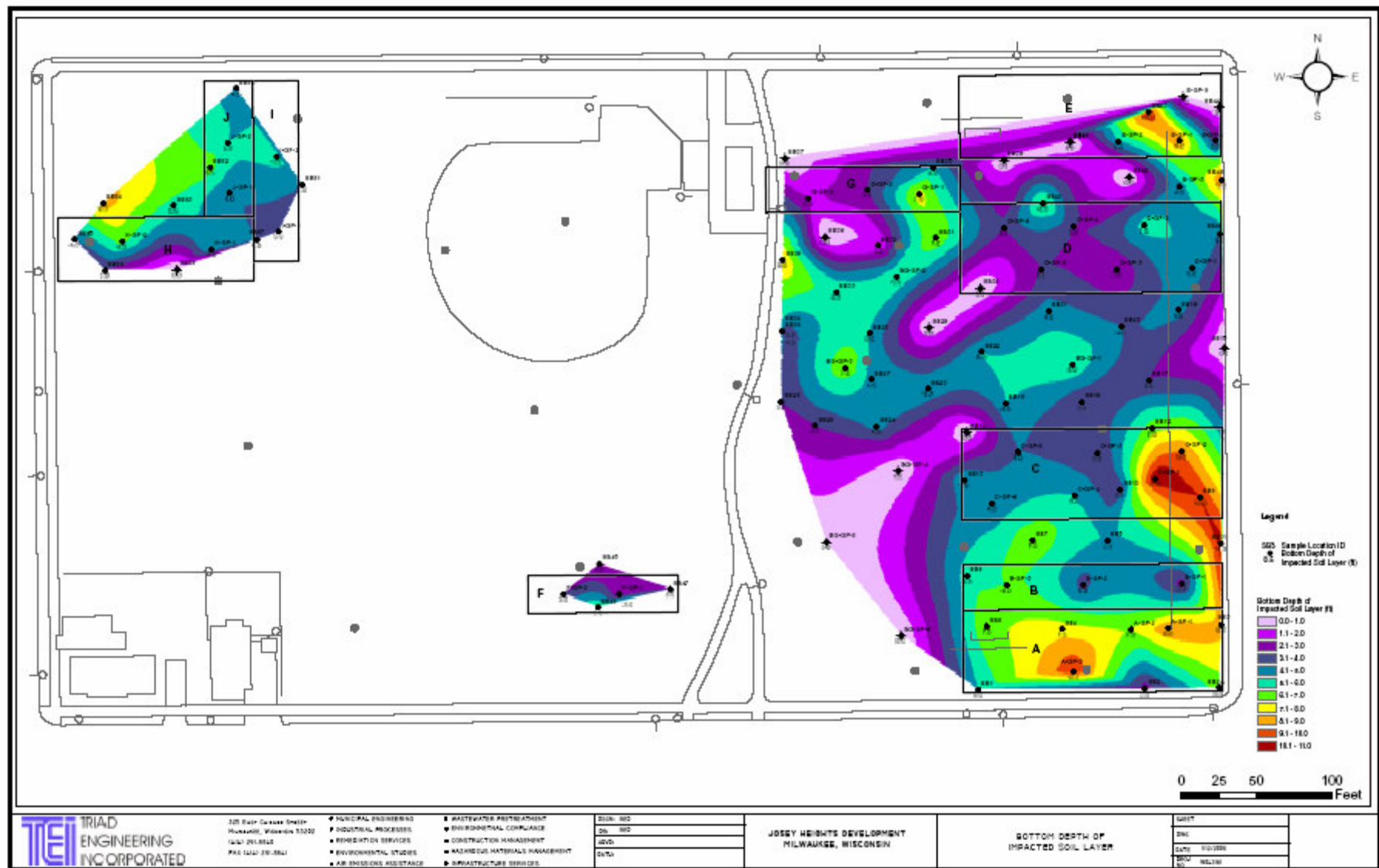




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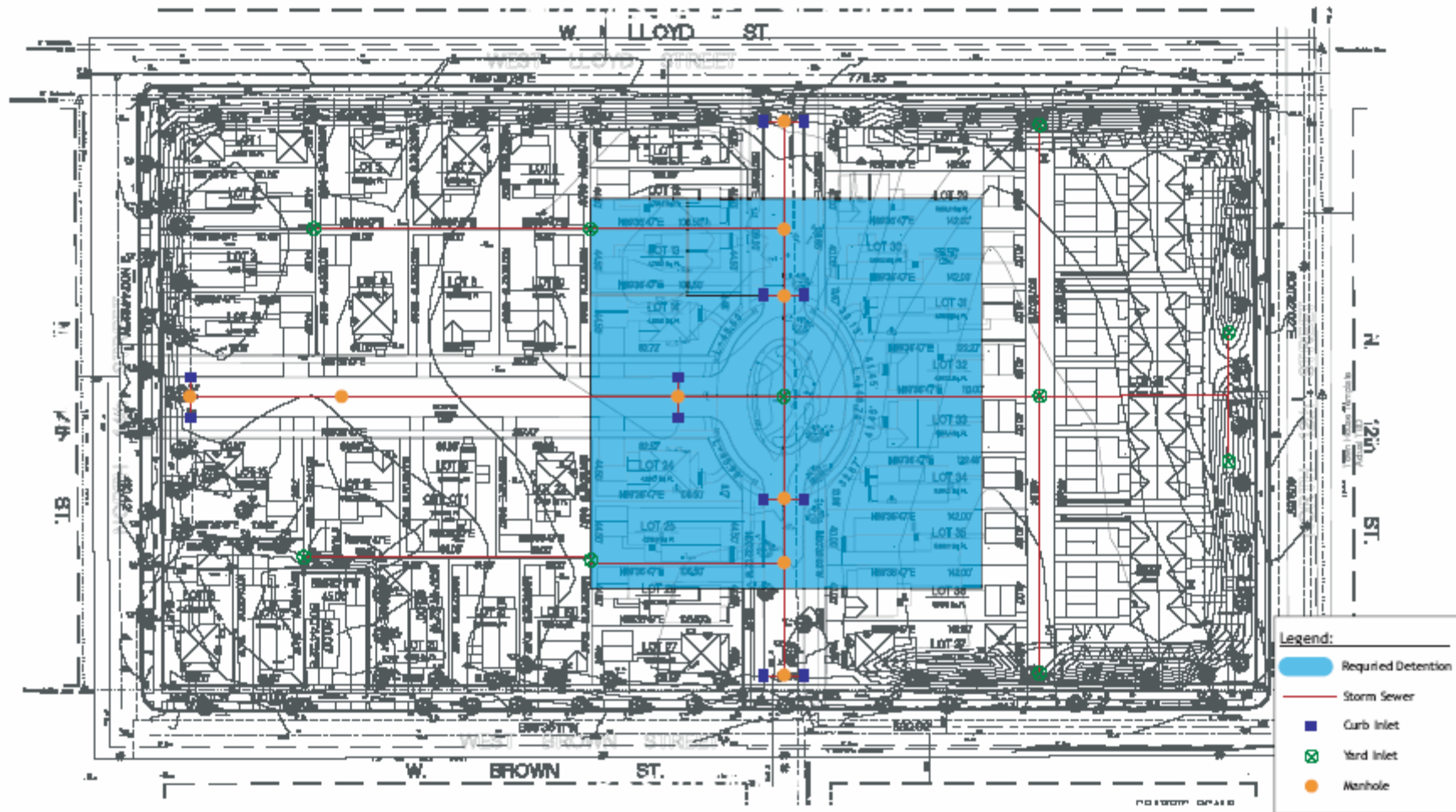




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conventional stormwater approach

JOSEY HEIGHTS DEVELOPMENT

Client
Planning and Design Institute, Inc.
10000 1st Ave. SE
Burien, WA 98148

Project Location
Burien, WA

Date
11/1/2017

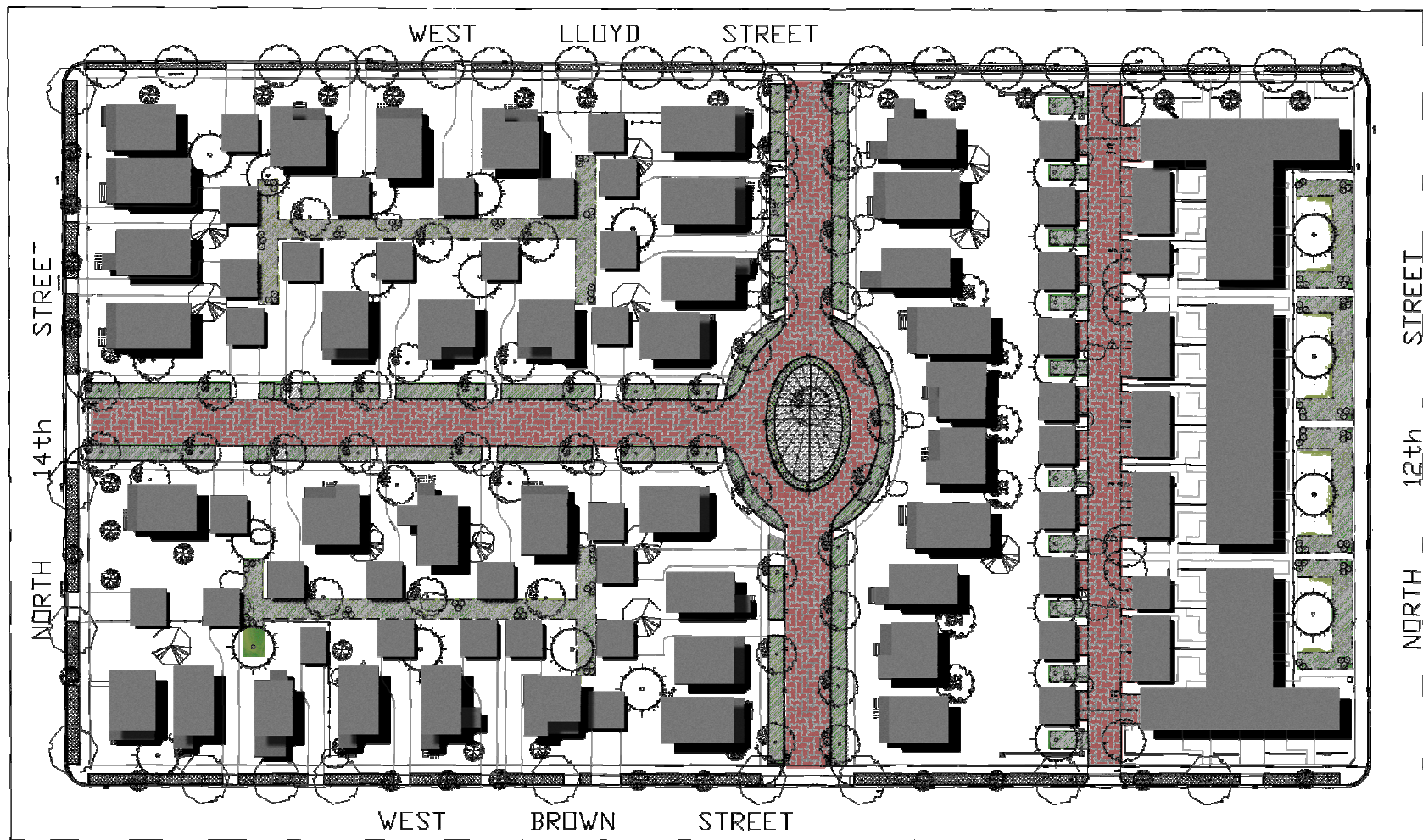
Scale
1" = 60' 0"

North Arrow



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Rain Gardens Street Bioswales Permeable Paving

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Rain Gardens

Street Bioswales

Permeable Paving

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Porous Pavement



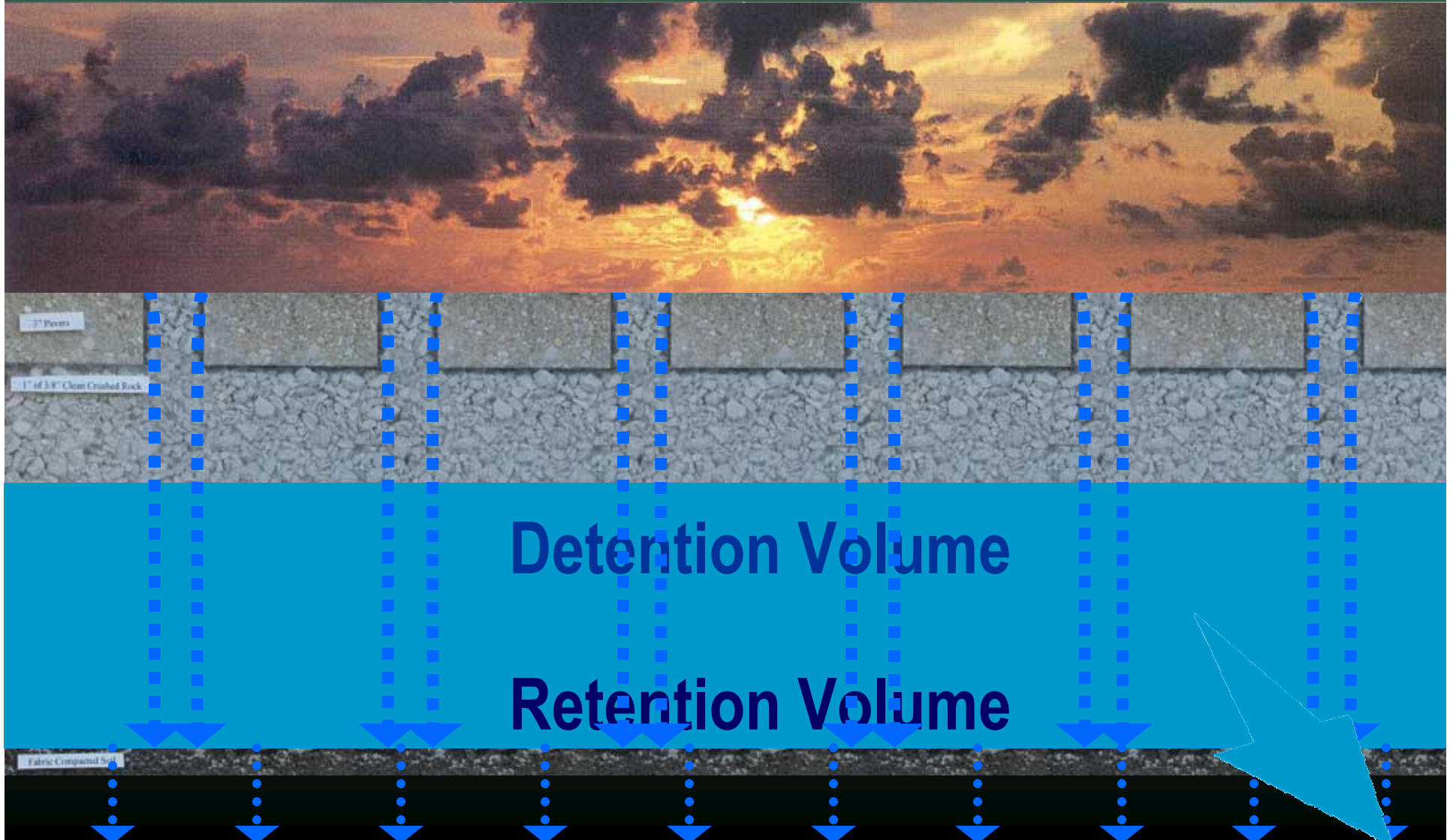
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Porous Pavement:

Infiltration (Retention) and Detention Capacity





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**Jordan Cove
Waterford, Connecticut**

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Portland Pavement Demonstrations



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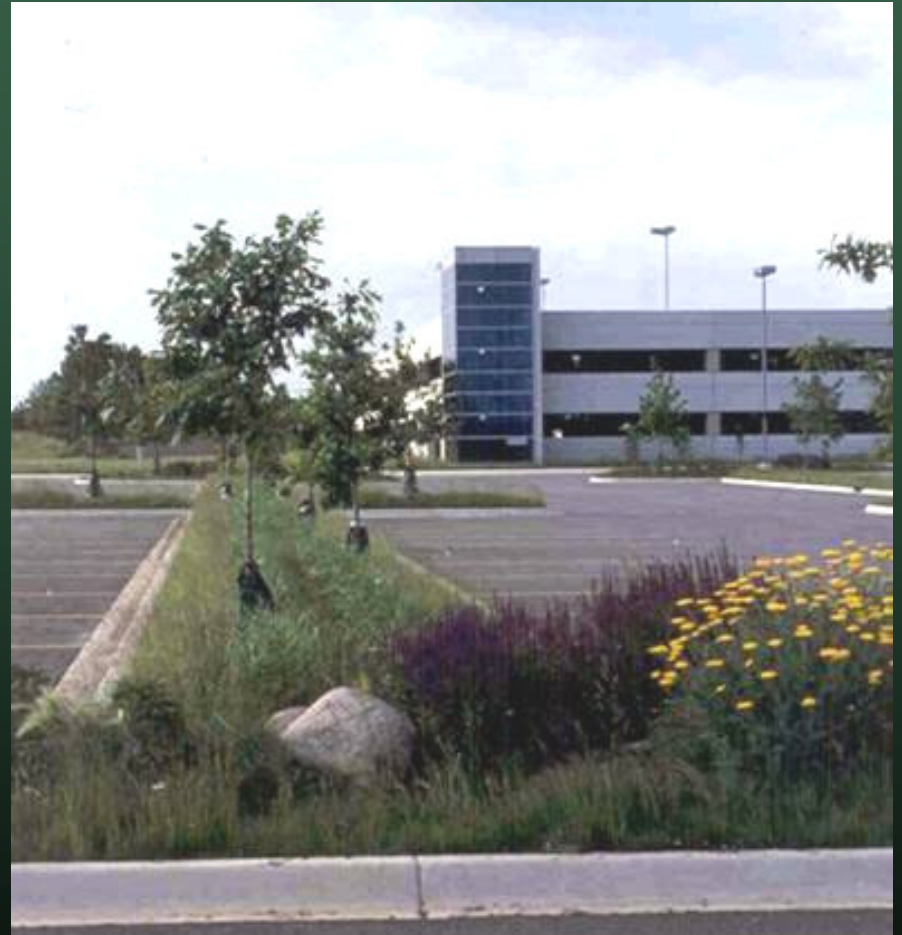


Bioretention Swales

Conventional



Conservation

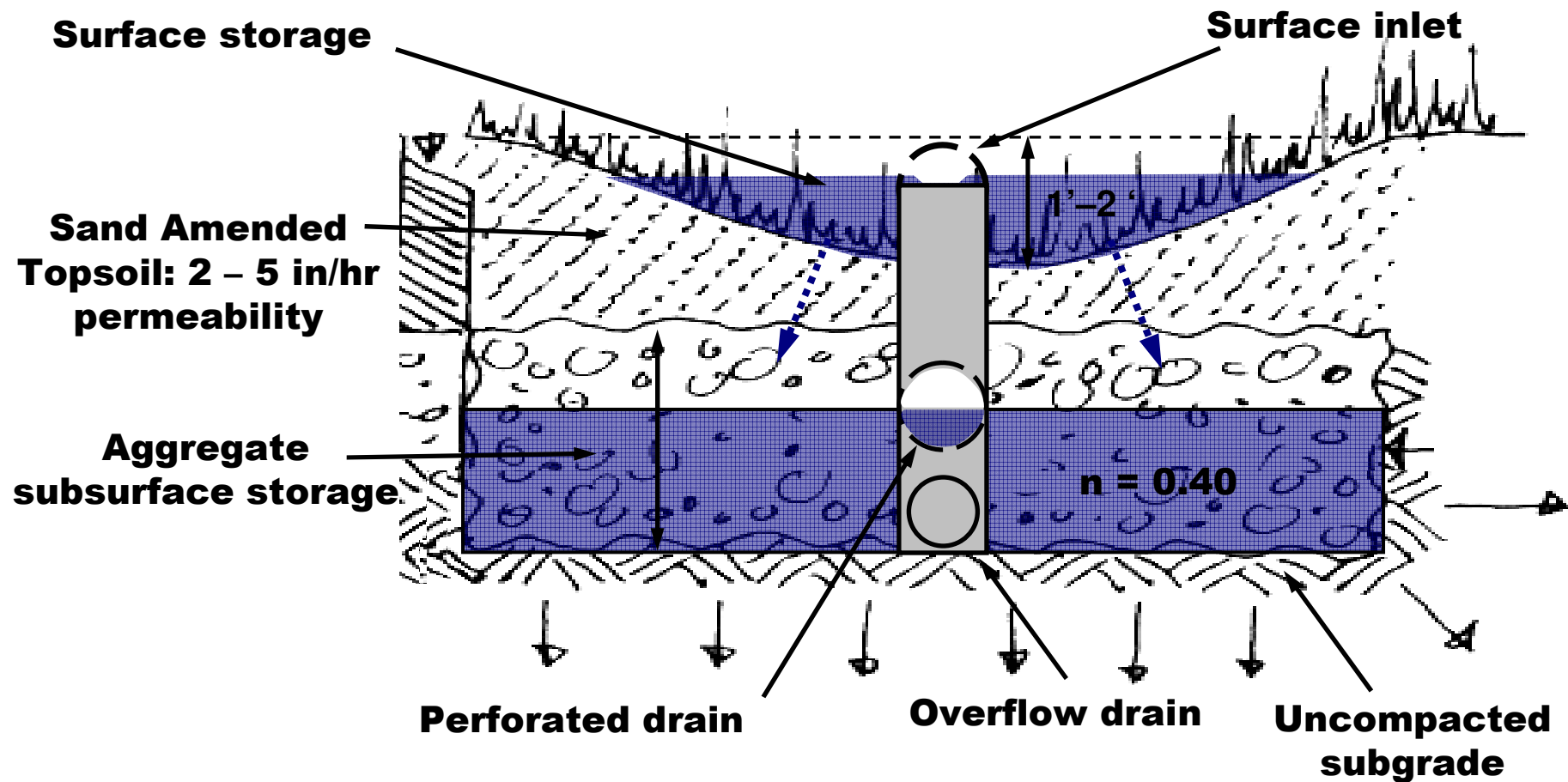


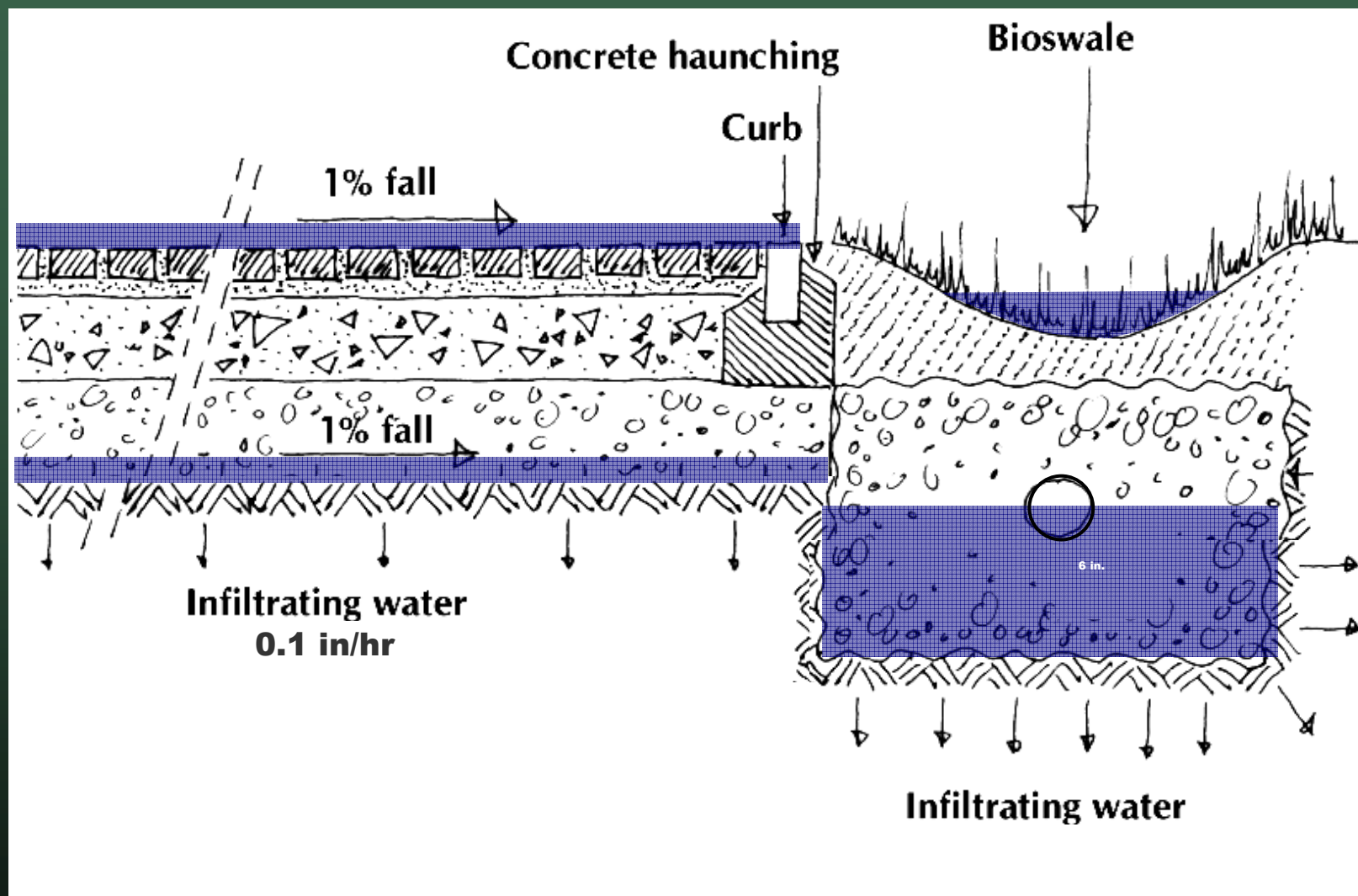
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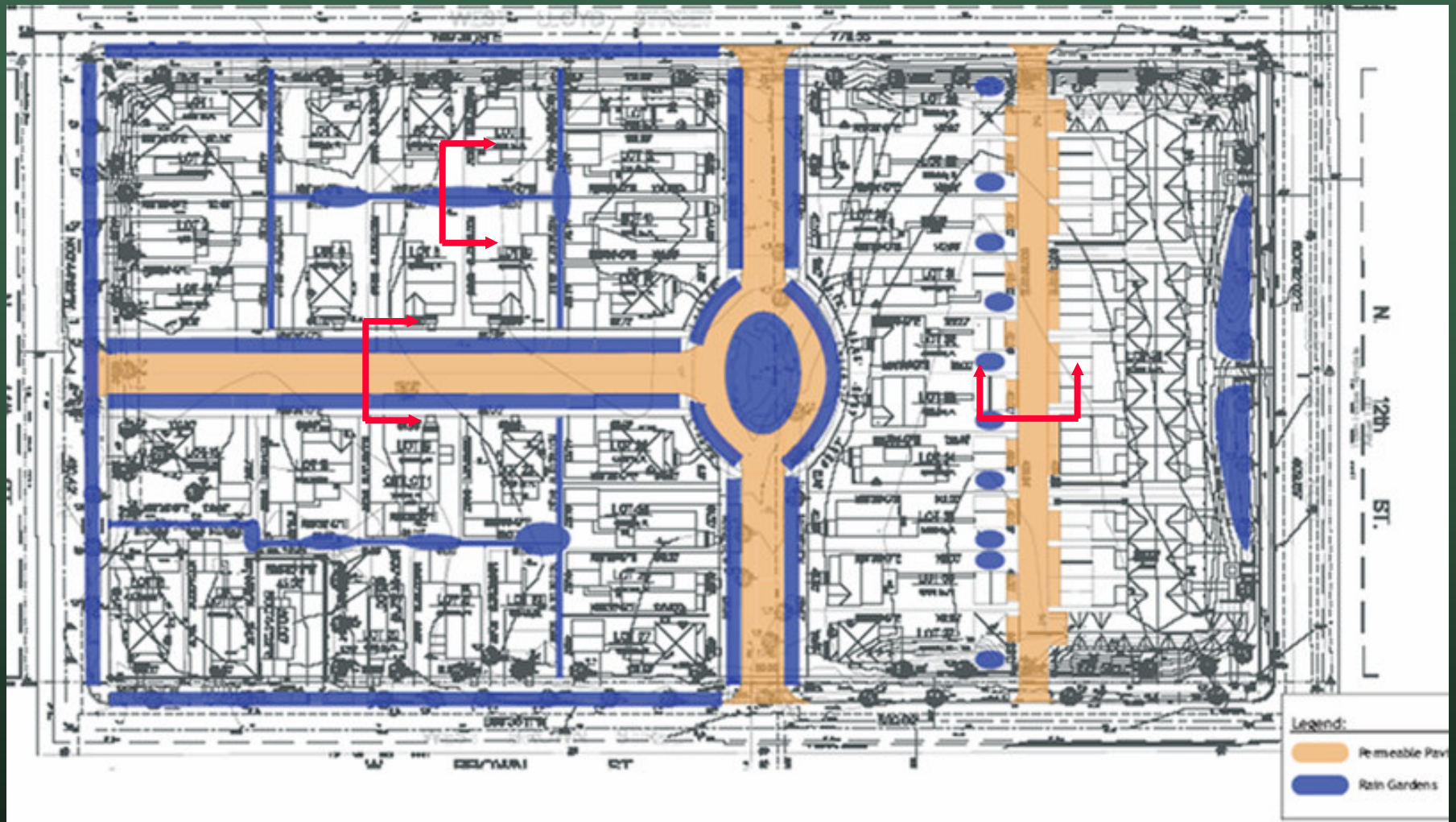
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Rain Garden Section





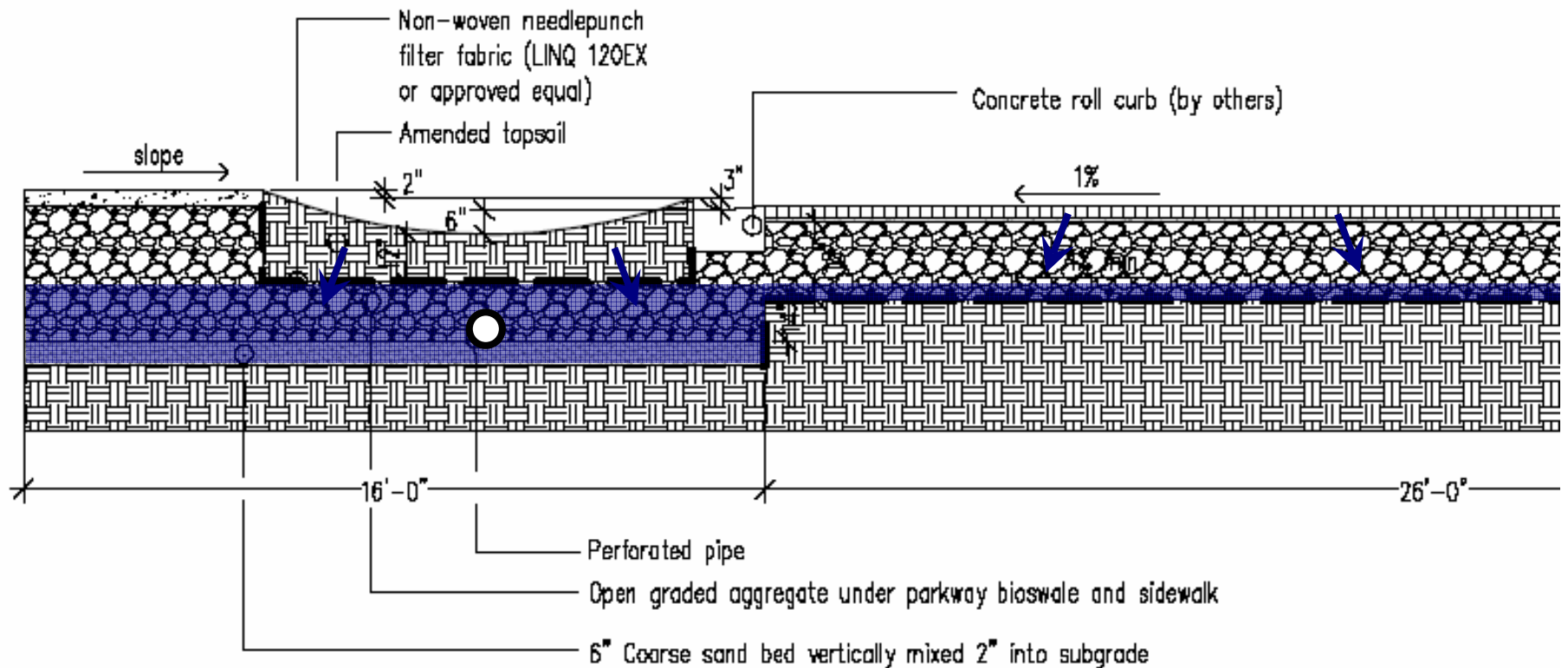


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* Sidewalk * Bioswale * Permeable paver street →

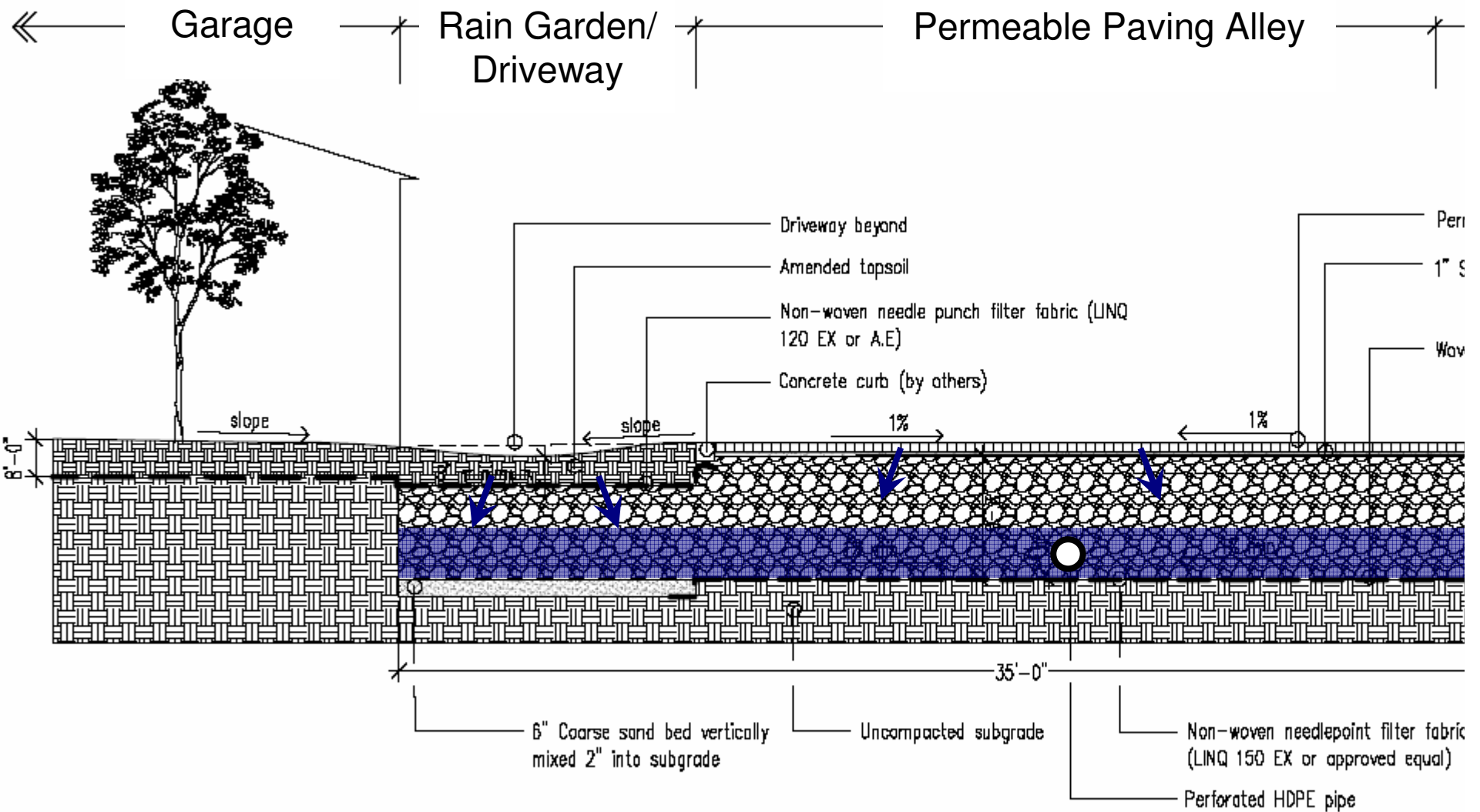


3 RIGHT OF WAY CROSS SECTION
NOT TO SCALE

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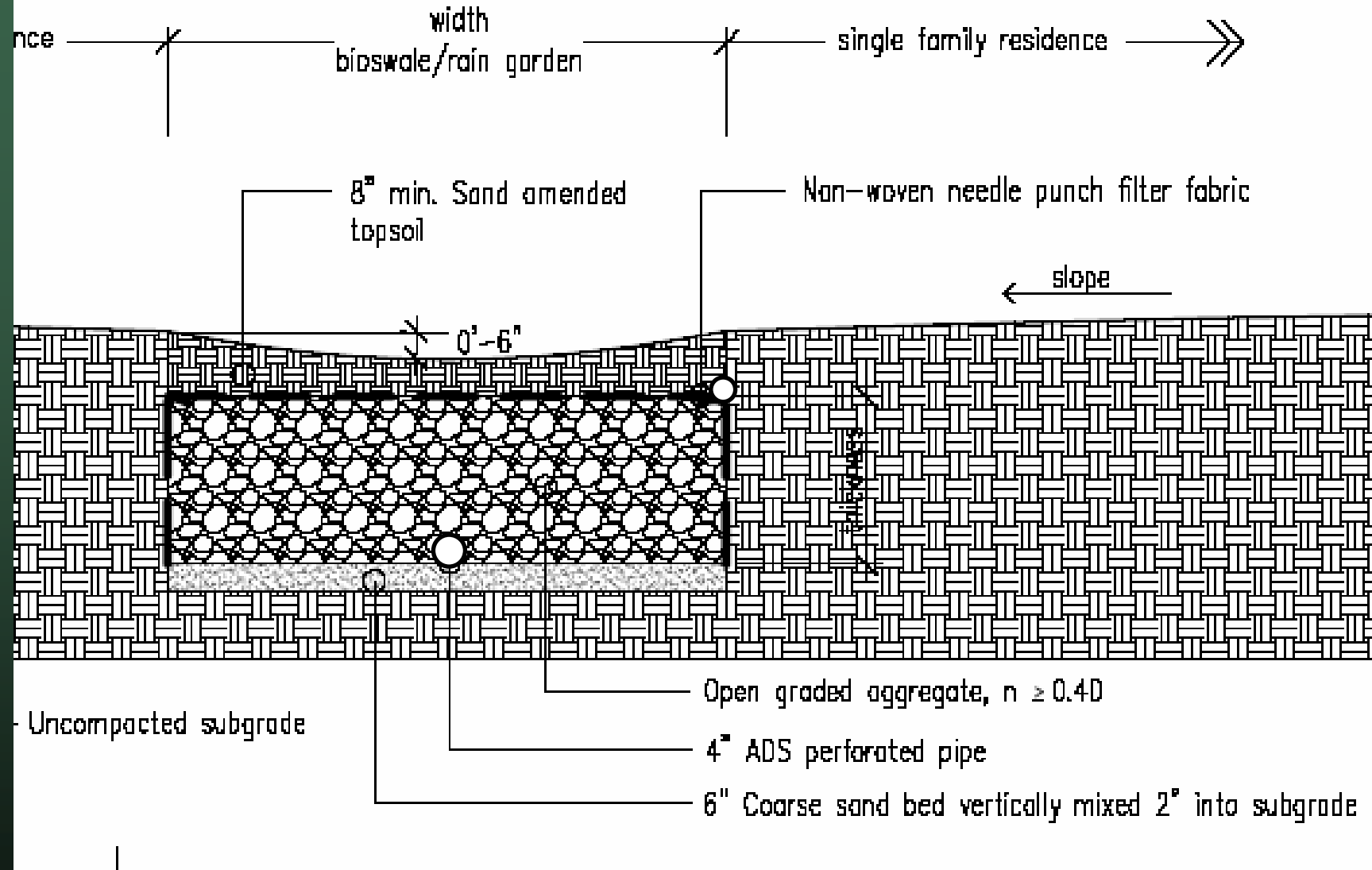
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2 ALLEY AT GARAGE AND RAIN GARDEN CROSS SECTION
NOT TO SCALE

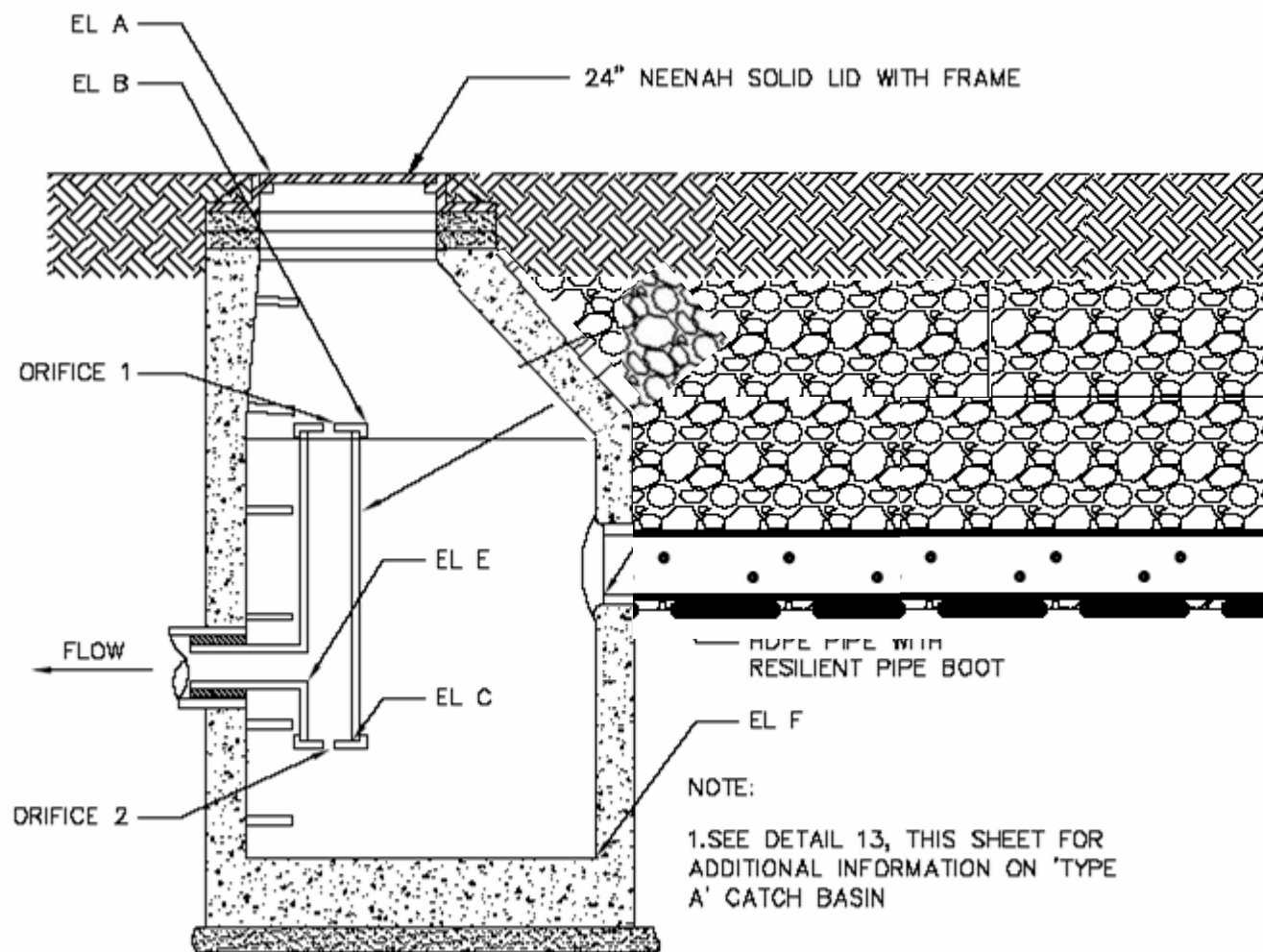




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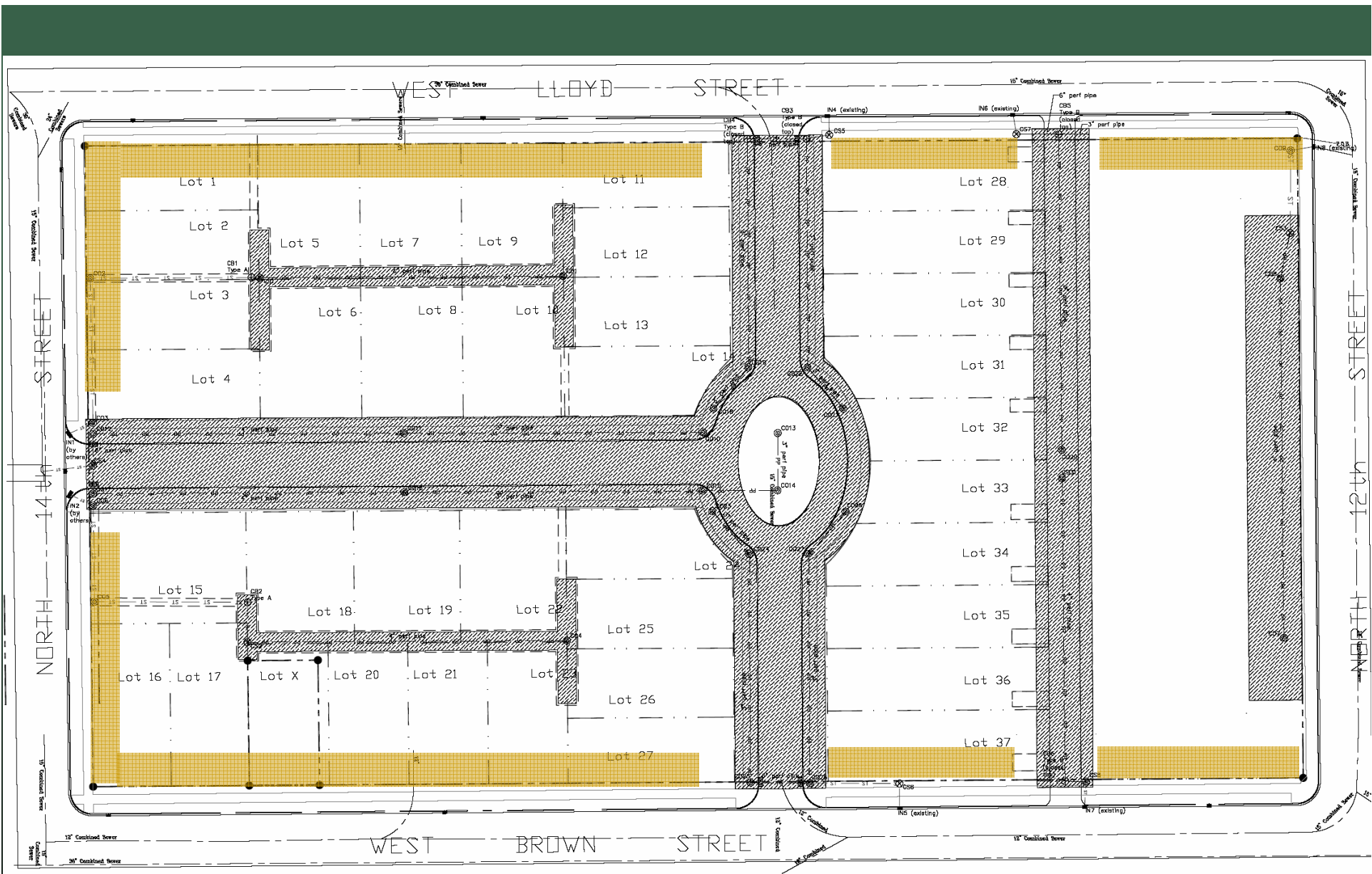
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6 CONTROL STRUCTURE
NOT TO SCALE



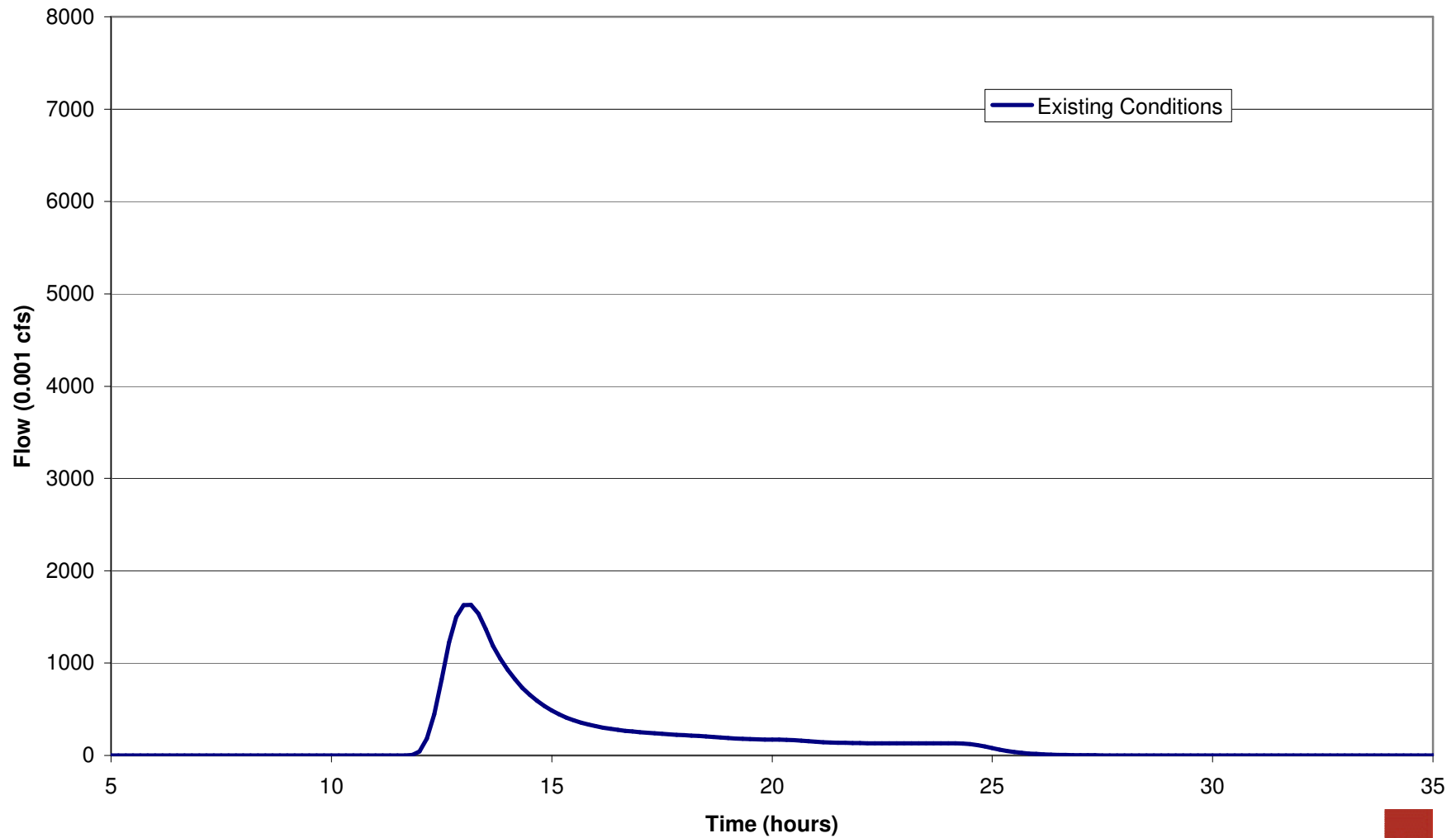


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Josey Heights 2-Year Hydrograph

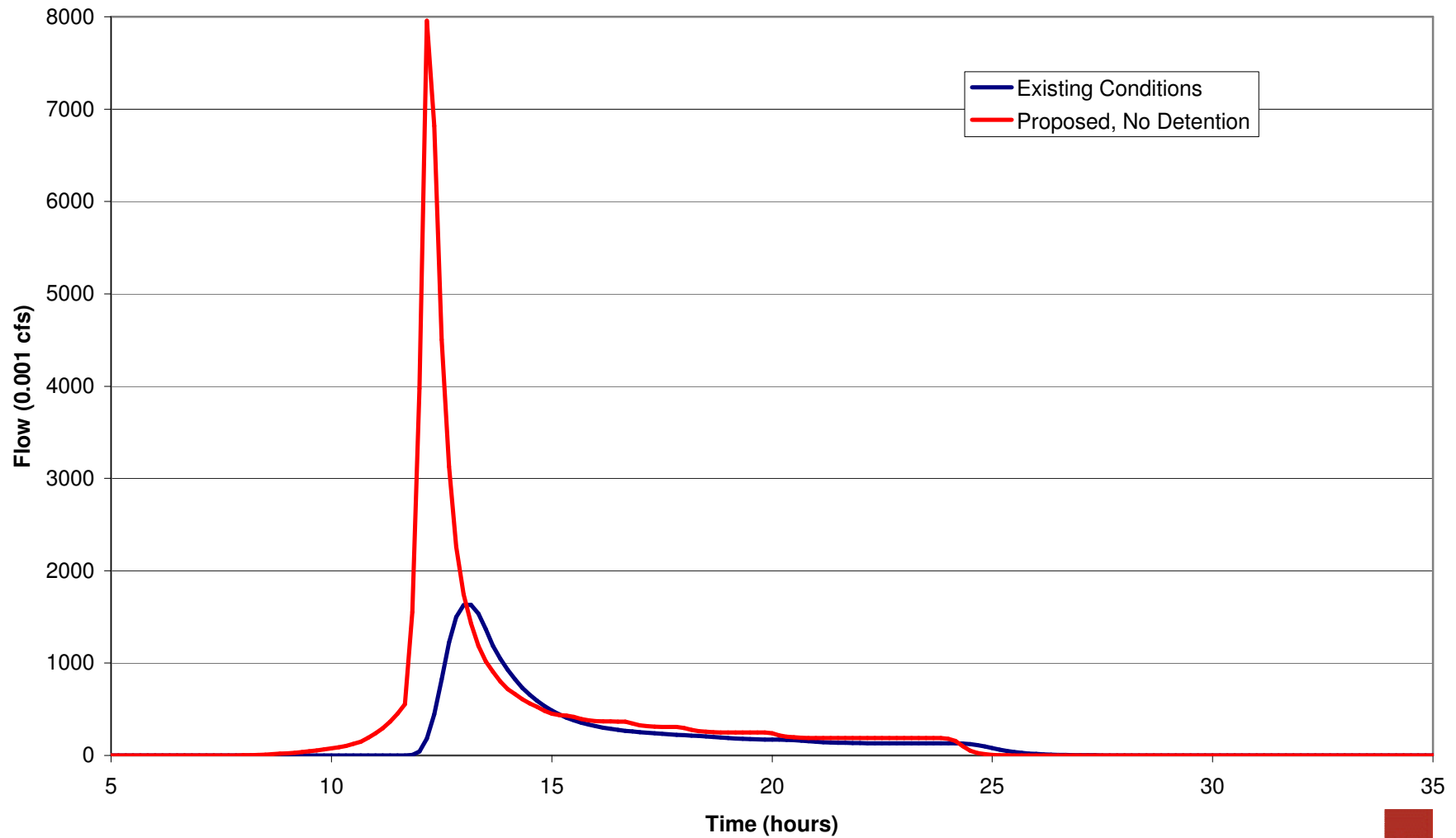


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Josey Heights 2-Year Hydrograph

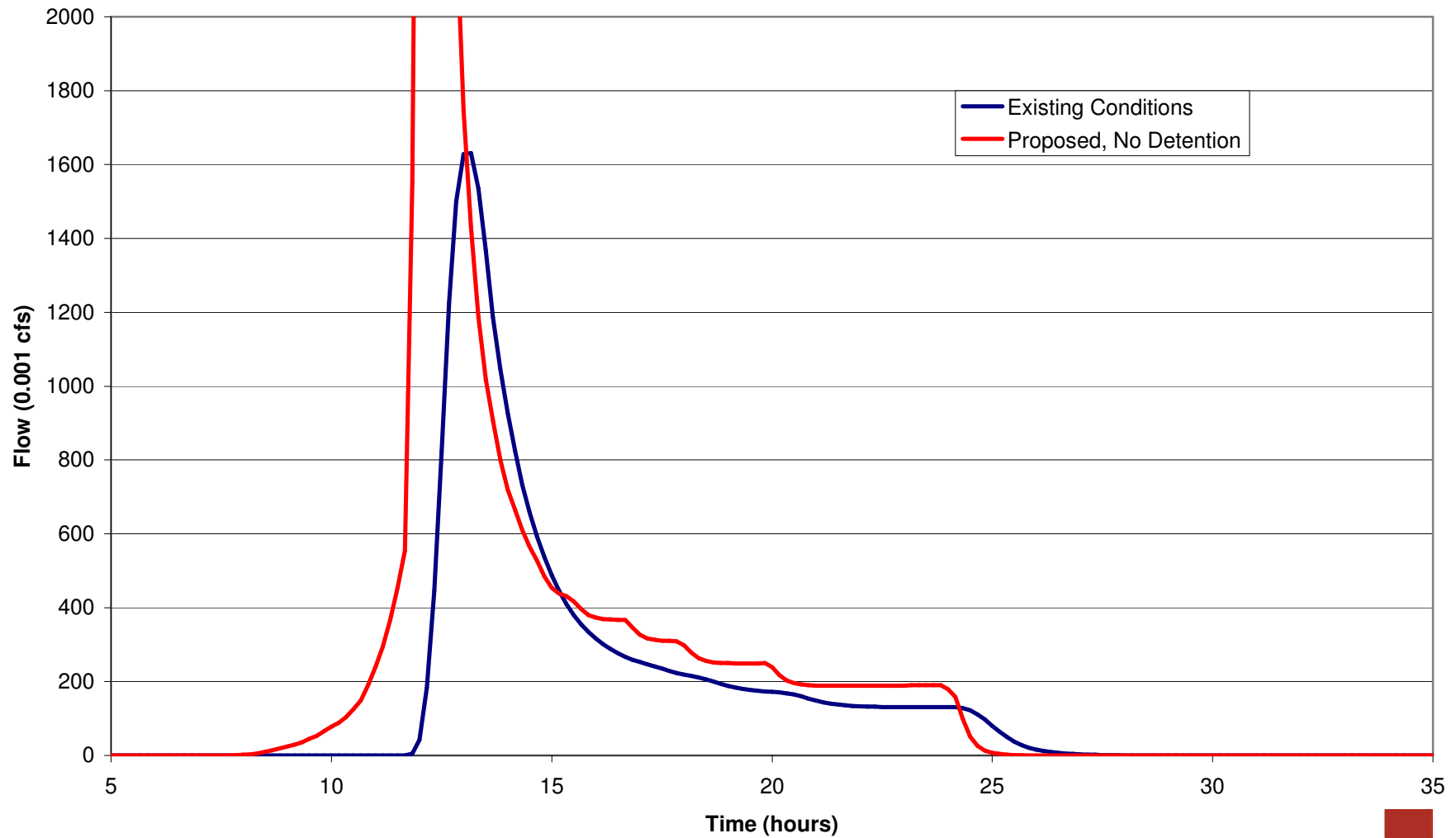


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Josey Heights 2-Year Hydrograph

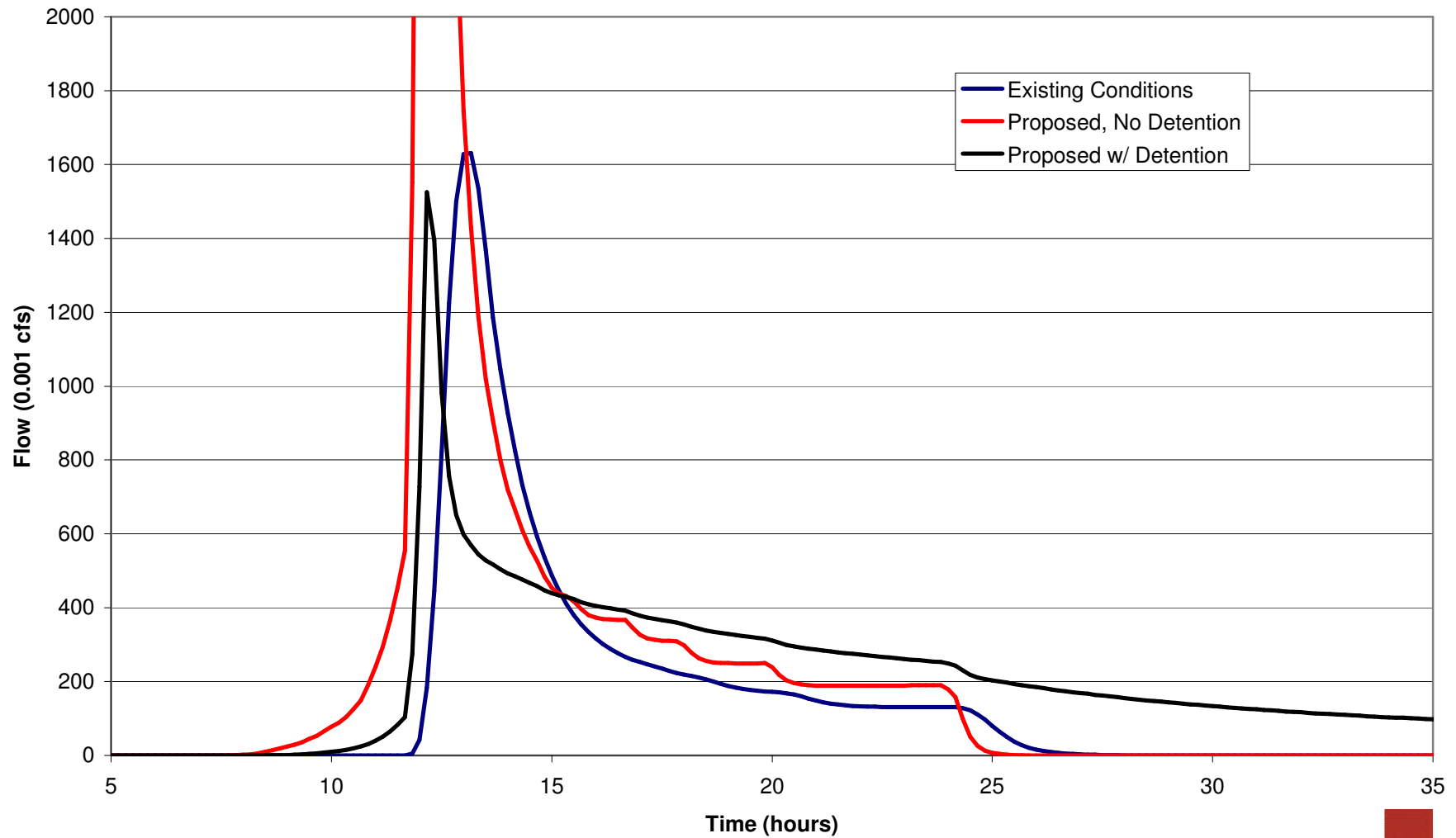


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Josey Heights 2-Year Hydrograph

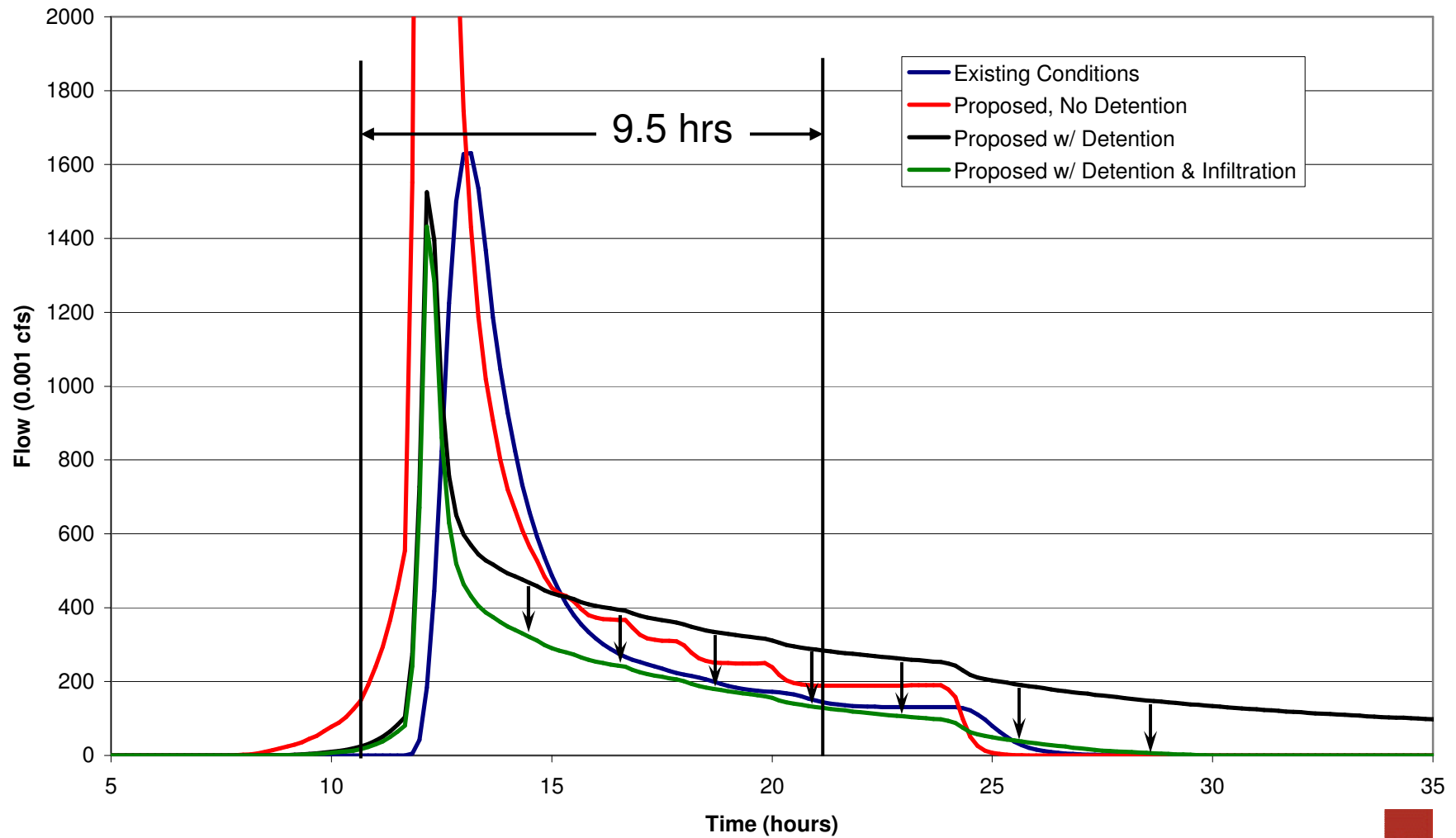


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Josey Heights 2-Year Hydrograph

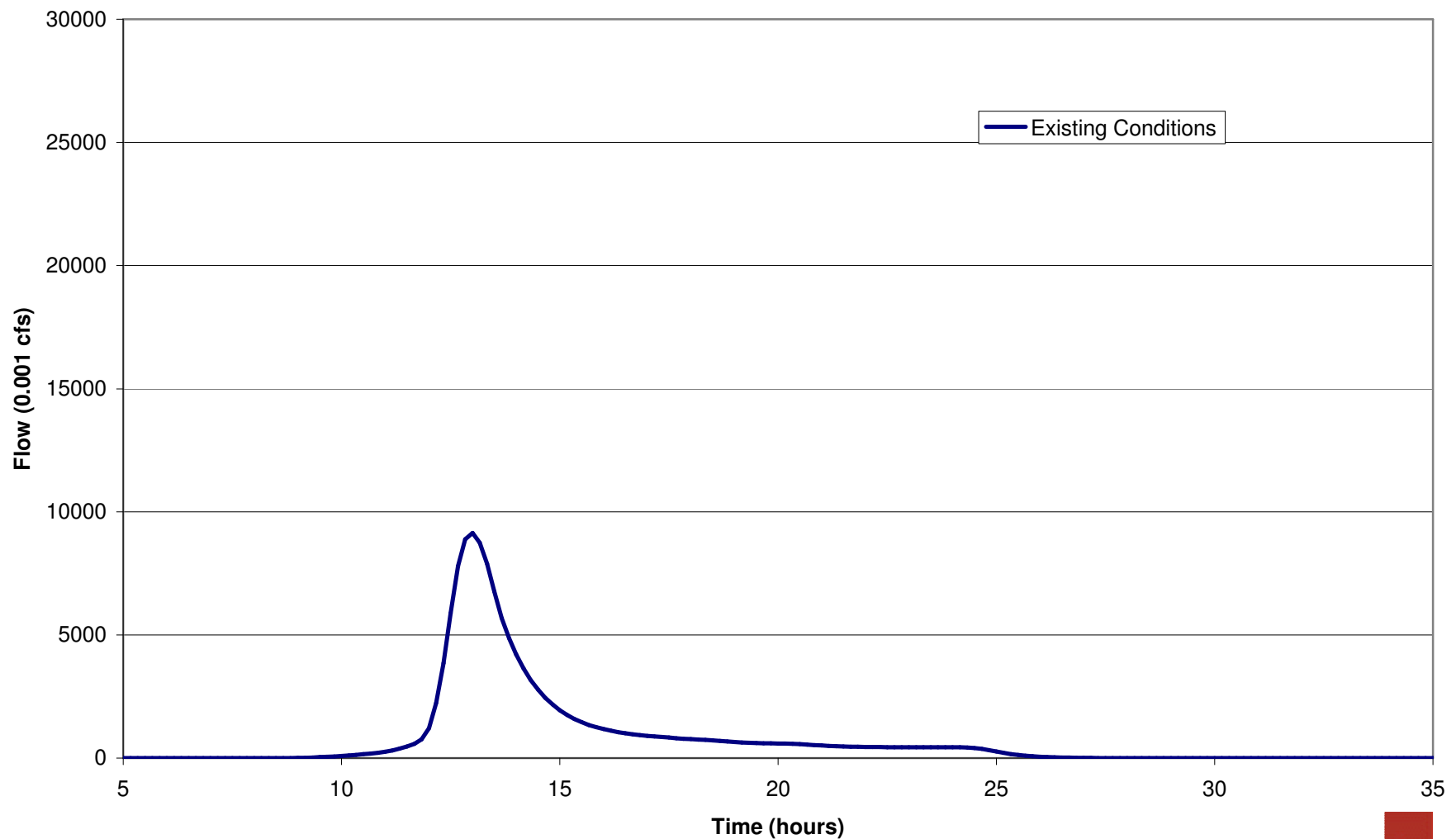


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Josey Heights 100-Year Hydrograph

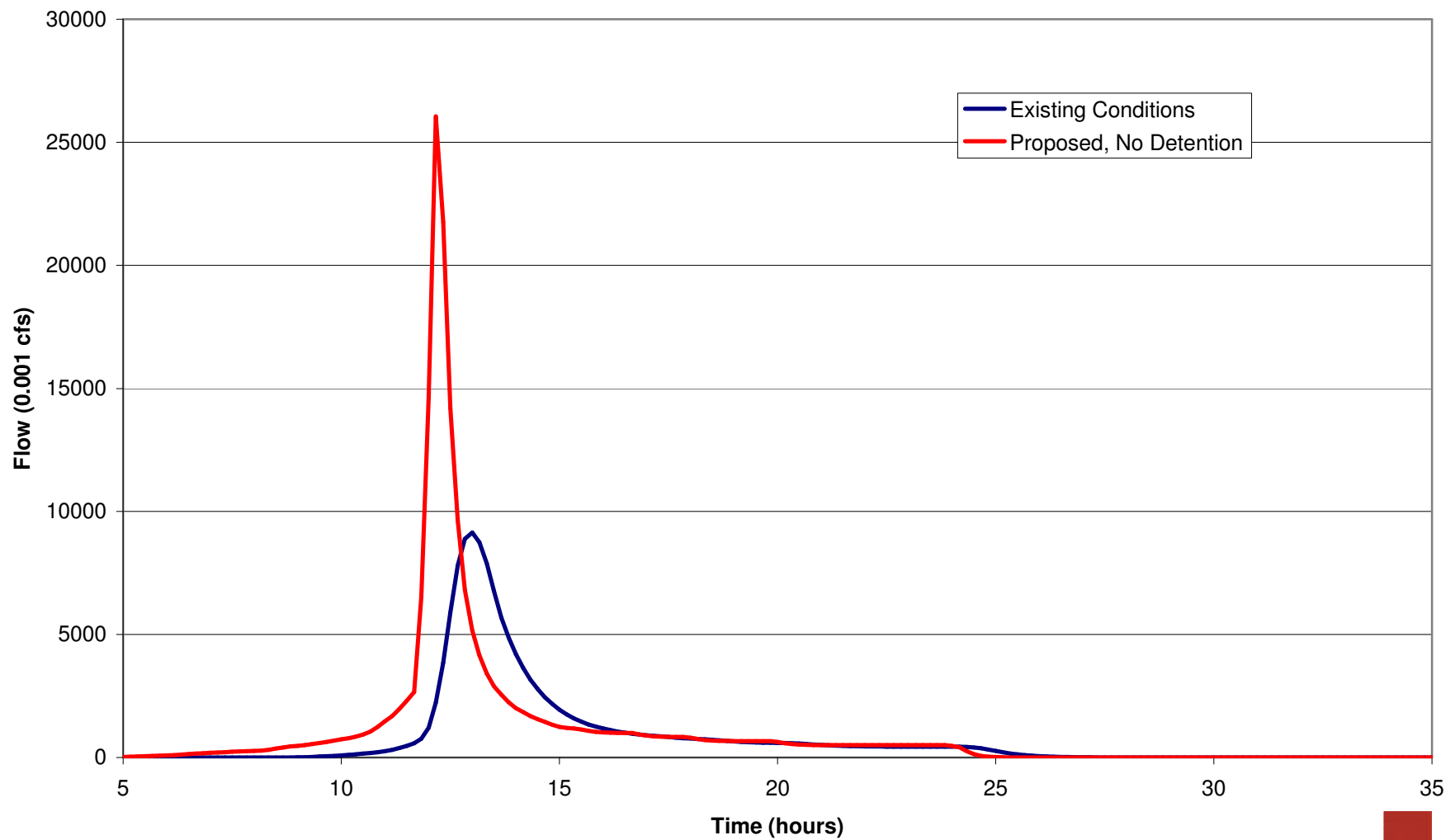


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Josey Heights 100-Year Hydrograph

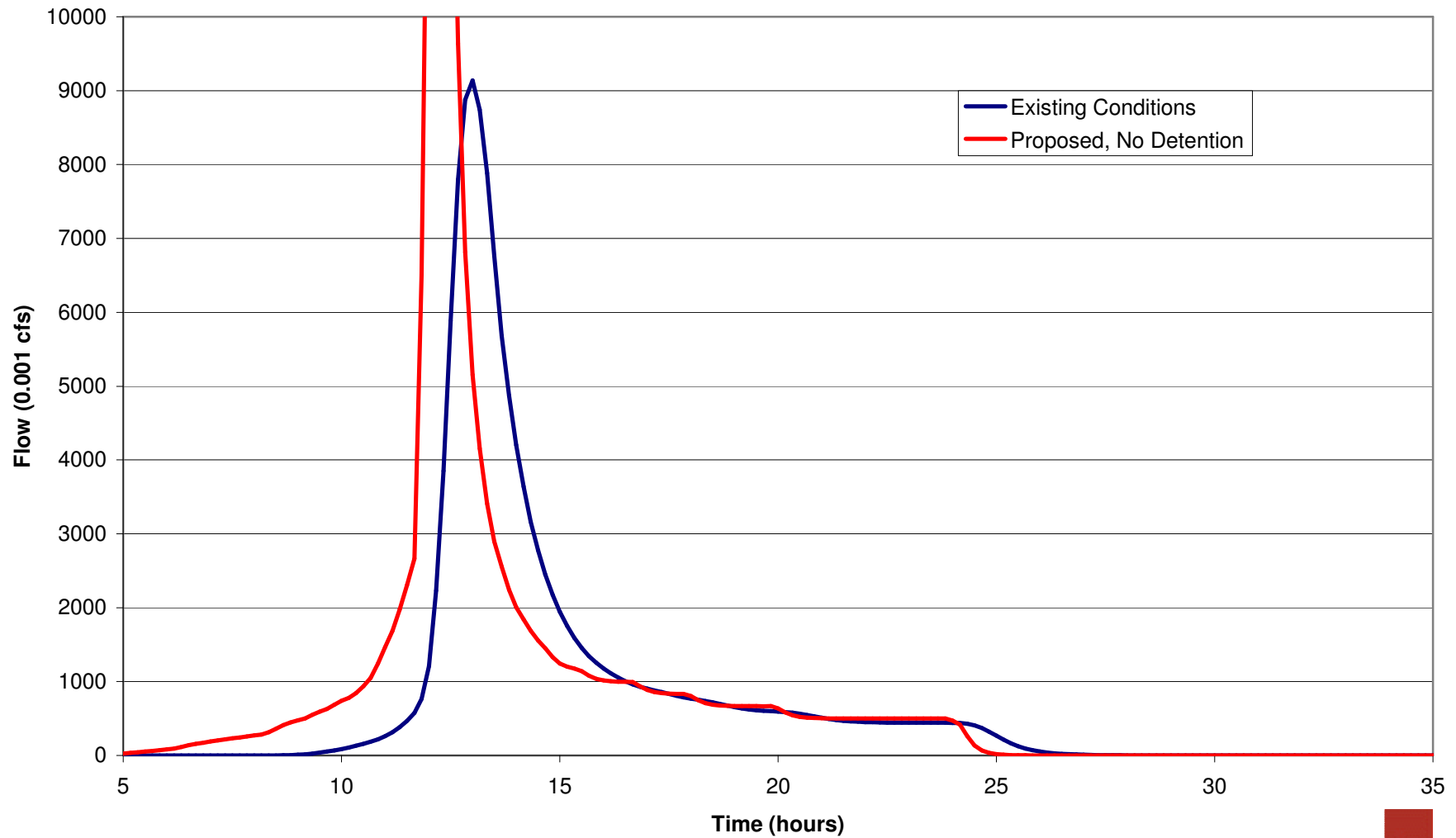


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Josey Heights 100-Year Hydrograph

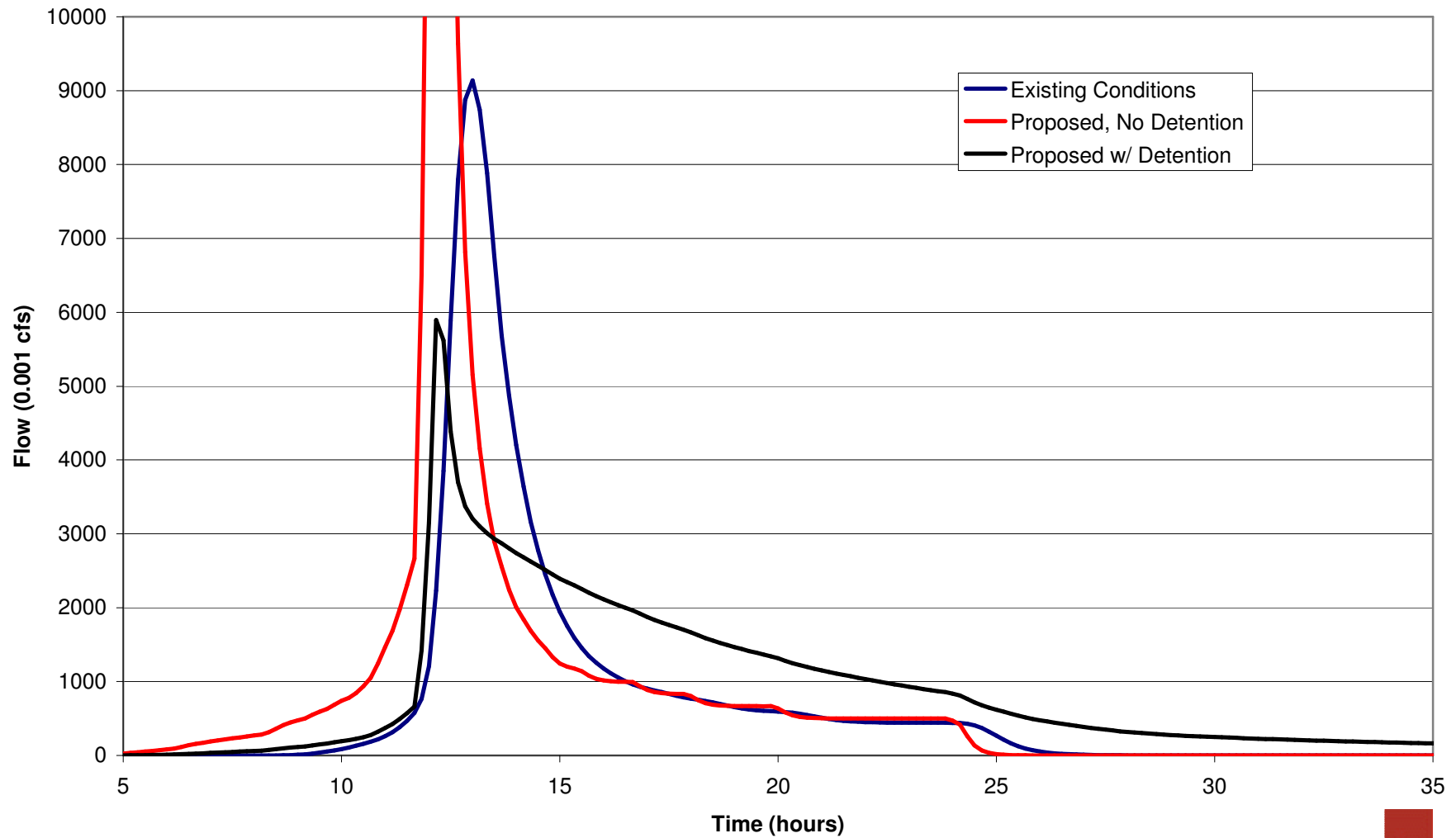


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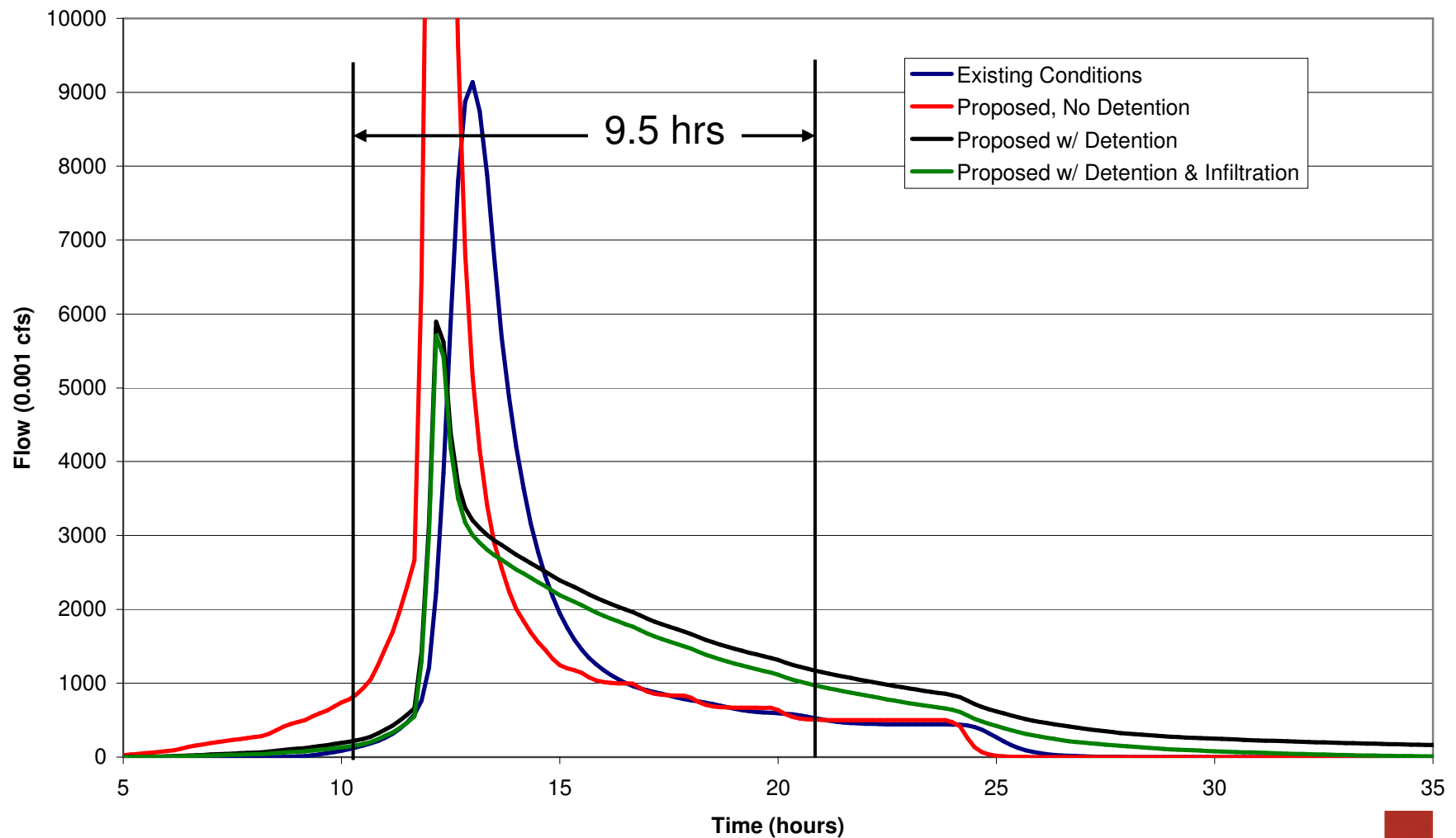


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Josey Heights 100-Year Hydrograph



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Estimated Project Performance

Event	24-hour Rainfall	Existing Conditions	Proposed w/o Detention	Proposed w/ Detention
2-yr Flow	-	1.6 cfs	8.0	1.4 cfs
100-yr Flow	-	9.1 cfs	26.1	5.7 cfs
2-yr VDP		4.3 cfs-hrs		4.3 cfs-hrs
100-yr VDP		20.9 cfs-hrs		20.8 cfs-hrs
2-yr Runoff	2.57''	0.65''	1.30''	0.46''*
100-yr Runoff	5.88''	3.08''	4.29''	3.13''*

City Coordination

- Site Remediation
- Sewer and Water Installation
- Road and Alley Installation



Construction Sequencing

- Site Remediation & Utility Installation
 - Remove contaminated soil from site
 - Fill excavations using trench excavations from utilities
 - Stub utilities five feet past sidewalk
- Street and ROW Stormwater Installation
 - Trench excavation respread onsite
 - Install walks & driveway aprons
 - Protect Paving from construction site runoff
- Build houses, accessing site from back
- Install backyard bioswales

Questions?



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